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PRODUCTION AND PROPERTIES OF

Production of microphone powder. N. P. Chirchyskii and D. M. Chernyshev. *Bull. Acad. Sci. U.S.S.R., (Class. Sci. Eng.)* 1967, 23:3-6 (in Russian). - Satisfactory microphone powders are produced from domestic anthracite by heating the coarsely crushed coal at 1000-1200° or 1400-1600°, depending on the variety; absence of coal dust in the material is essential; there is no need for a H atom, if the inlet is protected with charcoal. The permissible ash content is 1-2%. The thermal treatment is followed by a 2nd comminution. Crushing should be done in an app. producing sharp-edged lumps, rather than rounded or lamellar forms, and no dust. N. Thon

ASH-51.4 METALLURGICAL LITERATURE CLASSIFICATION

FROM: 139-121214

REMARKS: 139-121214

REMARKS: 139-121214

CHERNYSHEV, D. M.

USSR/ Engineering
Coke
Combustion

Jan 1948

"Combustibility of Coke", N. P. Chizhevskiy, Academician, D. M. Chernyshev,
Inst Mineral Fuels, Acad Sci USSR, 4 $\frac{1}{2}$ pp

"Izv Akad Nauk SSSR, Otdel Tekh Nauk" No 1

Conducted studies to show relationship between indicators showing changes
in combustion of coke and new indicators for evaluating the quality of
metallurgic coke. Authors able to determine relationship between combustion
of coke and its performance in dome furnaces. Submitted, 24 Sep 1947

PA 43/43T20

CHERNYSHEV, D. M.

"Problems of the Study of Solid Combustible Minerals," Vest. Ak. Nauk
SSSR, No.2, 1948

CHERNYSHEV, D. M.

PA 1/49T16

USSR/Engineering
Furnaces, Blast
Coke

Jun 48

"The Connection Between the Characteristics of the
Quality of Coke and the Operation of a Blast Furnace,"
N. P. Chizhevskiy and D. M. Chernyshev, Cand Tech
Sci, Inst of Mineral Fuels, Acad Sci USSR, 4 pp

"Stal'" No 6

New method permits classification of coke according
to CGS system. This is related to introduction of
coke into blast furnaces and is therefore very closely
tied up with operation of these furnaces.

1/49T16

CHERNYSHEV, D. M.

"The Heat Produced by Blast Furnace Coke," Stal', No.7, 1948

Inst. Mineral Fuels, AS USSR

CA

21

Relation between the indexes of quality of coke and blast-furnace operation. N. P. Chisherskil and D. M. Chernyshev, *Stal* 8, 405-8(1948).—A new app. for testing the strength of coke is described. A bed of coke is placed on a shelf and a weight is dropped on it from a height of 2 m. A definite relationship existed between the work spent on reducing the size of coke and the total surface area of the coke. The total surface area of the coke (at the tuyères) was then correlated with blast-furnace efficiency. When furnace efficiency was plotted in arbitrary units vs. diminishing surface area, i.e. greater strength of coke, a straight line was obtained. M. Hosh

CA

Combustibility of blast-furnace coke. D. M. Cherny-
shev. *Stat* 8, 589-91(1948).—A new formula is derived
which combines several characteristics of metallurgical
coke and which serves as an indicator of the quality of
coke. In its final form this formula is $K = (V_0 + 1)/SR_0$
where K is referred to as the coke index, V_0 is the vol. of
voids in a given quantity of coke, S is the surface area of
the coke, and R_0 is the combustibility of the coke. R_0
is detd. from the rate of reaction between coke and O in
the air. The relation between K and blast-furnace out-
put was tested in production. When all the factors except
coke were approx. the same, the relation between K and the
output was a straight line. —
M. Hosh

CHERNYSHEV, D. M.

PA 62T50

USSR/Engineering
Coke
Stability, Static

Mar 1948

"New Apparatus for Determining the Stability of Coke
by Shock Effects," D. M. Chernyshev, Inst Combustible
Materials, Acad Sci USSR, 3 $\frac{1}{2}$ pp

"Zavod Lab" Vol XIV, No 3

Briefly describes characteristics of new apparatus,
and discusses use of apparatus for obtaining samples
to be used in testing the stability of coke. Basic
principle is impact test on the coke.

62T50

CHERNYSHEV, D. M.

"Use of the micro-hardness method for studying use
coke making process"
pp. 246 of the monograph "Microhardness", Acad. Sci. U.S.S.R.
1951

AGROSKIN, Anatoliy Abramovich, prof.; CHERNYSHEV, D.M., red.; PETRUSHA,
L.F., red.izd-va; ISLENT'YEVA, P.G., tekhn.red.

[Thermal and electric properties of coals] Teplovye i elektricheskie svoistva uglei. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1959. 265 p. (MIRA 12:10)
(Coal)

TAYTS, Yefim Moiseyevich; CHERNYSHEV, D.M., red.; PTITSYNA, V.I., red. izd-
va; KLEYMAN, M.R., tekhn. red.

[Chemical structure and properties of coals and the process of coke
formation]. Svoistva kamennykh uglei i protsess obrazovaniia koksa.
Moskva, Gos.nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi me-
tallurgii, 1961. 299 p. (MIRA 14:6)

(Coal--Analysis)

(Coke)

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 11, p 55 (USSR) SOV/137-58-11-22224

AUTHOR: Chernyshev, D. P.

TITLE: Shaft-furnace Smelting of Oxidized Nickel Ores at the Yuzhuralnikel' Kombinat, Methods of Intensifying the Process and of Reducing Loss in the Slag (Shakhtnaya plavka okislennykh nikel'nykh rud na kombinat Yuzhuralnikel', puti yeye intensifikatsii i obedneniya otval'nykh shlakov)

PERIODICAL: Materialy Soveshchaniya po vopr. intensiv. i usoversh. dobychi i tekhnol. pererabotki medno-nikel'nykh i nikel'nykh rud. 1956 g. Moscow, Profizdat, 1957, pp 157-163

ABSTRACT: The smelting of oxidized Ni ore in shaft furnaces at the Orsk Plant is characterized by high carry-off of dust (up to 20%), peripheral furnace operation, and high top-gas temperature (up to 800°C). Improvement in the smelting process is possible by: 1) Improvement of charge preparation (proportioning of the ore, smelting of fluxed and sulfided sinter, elimination of raw ore from the furnace charge); 2) changing the smelting regime (raising O₂ blow to 25-40%, heating the blow, raising the vapor pressure of the blow

Card 1/2

Shaft-furnace Smelting of Oxidized Nickel Ores (cont.)

SOV/137-58-11-22224

to 2000 mm water, with increase in ore-dust depth to 6 m). Test heats under these conditions resulted in a 20% rise in output, a 15% saving in coke consumption, a reduction in loss of blow, and a diminution of CO in the gases to 8% as against 18% CO₂, plus a decline in top-gas temperature to 200-400°. The present furnace profile, which presents an 1800 mm width at the throat and a 1000 mm width at the hearth makes for formation of chilled residue. Reduction in throat width to 1450 mm reduces sow formation and causes the charge to descend more uniformly. A furnace is being designed with sealed throat.

V. L.

Card 2/2

USSR/Cultivated Plants - Fodder.

M.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15653

Author : D.S. Chernyshev

Inst : Stavropol'skiy Agricultural Institute.

Title : Sowing Perennial Grasses on a Cover of Annual Grain
Grasses under the Varying Moisture Conditions of
Stavropol'skiy Kray.
(Posev mnogoletnikh trav pod pokrov odnoletnikh zlako-
vykh trav v usloviyakh neustoychivogo uvlazhneniya
Stavropol'skogo kraya).

Orig Pub : Tr. Stavropol'sk. s.-kh. in-ta, 1956, vyp. 7, 65-68

Abstract : On the Experimental Field of the Stavropol'skiy
Agricultural Institute in 1953-1955, the cover plants
were: sorghum, Sudan grass, Foxtail millet, the Hun-
garian grass *Setaria italica* L. P.B. var. *moghharicum*

Card 1/2

USSR/Cultivated Plants - Fodder.

M.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15653

Alf., and millet, and those on the cover where alfalfa and sainfoin. The green stuff and hay yield of the covering annula grasses was high (sorghum 70 centners per hectare of hay, or 274 centners per hectare of green stuff). The alfalfa and sainfoin, sown together with the seeds of the covering grasses, developed wholly satisfactorily and wintered well. The average alfalfa yield varied in relation to the covering crops; the green stuff from 60.9 centners per hectare (after Hungarian grass) to 72.2 centners per hectare (after Fox-tail millet). With pure sowing of alfalfa (without a covering crop) the green mass harvest was 55.1 centners per hectare and that of hay was 20.9 centners per ha. When sown in summer both the covering crop and the alfalfa yields were lowered.

Card 2/2

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AGAPOV, V.S.; CHERNYSHEV, D.V.

Efficient method of roll grooving for KaPT mills. TSvet. met.
34 no.3:87-88 Mr '61. (MIRA 14:3)

1. Zavod "Krasnyy Vyborzhets."
(Rolls (Iron mills))

KASHIRSKIY, F.M., zhurnalist; Primali uchastiye: LEVIN, I., zhurnalist;
MURZIN, A., zhurnalist; CHERNYSHEV, E., zhurnalist; TRISHIN, V.,
zhurnalist; GUSEVA, D., zhurnalist; MAKAROV, D., zhurnalist;
NIKOLASHIN, V., zhurnalist; NAUMENKO, I., zhurnalist; MOROZOV, P.,
zhurnalist; KORNILOVA, M.I., red.; SHIKIN, S.T., tekhn.red.

[Innovators in the seven-year plan; on a voluntary basis]
Zachinateli novogo v semiletke; na obshchestvennykh nachalakh.
Moskva, Izd-vo VTsSPS Profizdat. No.6. 1961. 42 p.

(MIRA 15:2)

(Technological innovations)

RASTORGUYEV, I., inzh.; CHERNYSHEV, F., inzh.

Building an automotive transportation unit by one's own means.
Avt. transp. 37 no.8:40-41 Ag '59. (MIRA 12:12)
(Transportation, Automotive) (Industrial buildings)

CHERNYSHEV, F.

Marxism-Leninism on the development of society. Komm. Vooruzh.
Sil 4 no.8:61-71 Ap '64. (MIRA 17:6)

CHERNYSHEV, P., kontr.-admiral zapasa

Inexhaustible source of power of the Soviet Armed Forces. Komm.
Vooruzh. Sil 46 no.13:87-90 J1 '65. (MIRA 18:7)

CHERNYSHEV, F., kontr-admiral

Academy of life. Voen. znan. 42 no.2:8-9 F '66.

(MIRA 19:1)

Chernyshev, F.A.
CHERNYSHEV, F.A.

Wages of workers during the period of repairs. Sakh.prom.31
no.9:39-40 S '57. (MIRA 10:12)

1. Krasno-Yaruzhskiy sakharney zavod.
(Wages)

CHERNYSHEV, F.I., kontr-admiral zapasa

Books about the heroic past which will never be forgotten.

Mor. sbor. 46 no.7:89-96 J1 '63.

(MIRA 16:11)

DAVYDOV, A.S., polkovnik; KORSHUNOV, V.N., polkovnik; KOZLOV, N.D., podpolkovnik; LUKANIN, Ye.A., polkovnik; NESIN, A.A., polkovnik; POZMOGOV, A.S., polkovnik; PUTINTSEV, A.I., podpolkovnik; SIDORENKOV, P.I., polkovnik; SYTOV, L.G., polkovnik; FEDIN, G.R., polkovnik; CHEREDNICHENKO, V.T., polkovnik; CHERNYSHEV, F.I., kontr-admiral zapasa; SHATURNYY, A.N., polkovnik; ROMANOV, I.M., red.

[Methodological materials for political instruction] Metodicheskie materialy k politicheskim zaniatiyam. Moskva, Voenizdat, 1965. 240 p. (MIRA 18:7)

1. Russia (1923- U.S.S.R.) Glavnoye politicheskoye upravleniye Sovetskoy Armii i Voenno-Morskogo Flota. Upravleniye propagandy i agitatsii.

CHERNYSHEV, F.V.

Pyatigor'ye. Priroda 50 no.12:59-61 D '61. (MIRA 14:12)

1. Vserossiyskoye obshchestvo okhrany prirody (Kislovodsk).
(Stavropol Territory--Natural monuments)

GEORGADZE, S.; MATLIN, M.; MIRGORODSKIY, I., starshiy instruktor;
CHERNYSHEV, G., student (Zhdanov); DEKHTYAR, B., metodist;
VYSOTSKIY, V., instruktor; KANUKOV, G. (g. Shakhty, Rostovskoy obl.);
MCHEDLISHVILI, I. (Tbilisi); BABENKO, P. (Poltavskaya obl.)

Readers relate; advise and criticize. Sov. profsoiuzy 18 no.19:30-31
0 '62. (MIRA 15:9)

1. Nachal'nik otдела труда i zarabotnoy platy rudnika "Nittis-Kumuzh'ye" kombinata "Severonikel'", Murmanskaya obl. (for Matlin).
2. Orgmassovyy otдел Krasnodarskogo kraysovprofa (for Mirgorodskiy).
3. TSentral'nyy Dom kul'tury zheleznodorozhnikov, g. Rostov-na-Donu (for Dekhtyar).
4. Gorodskoy komitet Kommunisticheskoy partii Sovetskogo Soyuz; g. Omsk (for Vysotskiy).
5. Neshtatnyy korrespondent zhurnala "Sovetskiye profsoyuzy" (for Kanukov).
(Tiflis--Engraving) (Trade unions) (Weddings)

SOV/84-58-10-34/54

AUTHOR: Chernyshev, G., Instructor of Advanced Aviation School of
~~Civil Aviation Fleet~~

TITLE: The Doppler Effect in Plane Guidance (Effekt Dopplera v
samoletovozhdenii)

PERIODICAL: Grazhdanskaya aviatsiya, 1958, Nr 10, pp. 21-23 (USSR)

ABSTRACT: The author stresses the significance of the Doppler effect used in radio-technical equipment and applied in connection with the development of automatic navigational devices. He describes this navigational equipment which also supplies guidance signals to the automatic pilot and thus ensures complete automatization in plane piloting. There are 5 drawings and 2 photographs.

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CHERNYSHEV, G.

Loaders are going to fields. Grazhd.av. 20 no.7:26 J1'63.
(MIRA 16:9)
(Loading and unloading—Equipment and supplies)

STAVISKIY, N., inzh.; CHERNYSHEV, G., nachal'nik tsakha; YENA, O., rabotnik
Technical novelties. Grazhd. sv. 22 no.6227 Je '65. (MIRA 18:6)

L 31954-66 ENT(d)/FSS-2/ENT(1)/ENT(2)/ENT(3)-27-JB/EC
 ACC NR: AP6017933 SOURCE CODE: UR/0084/66/000/006/0024/0025

AUTHOR: Chernyshev, G. (Senior instructor)

ORG: Higher aviation school (Vysshego aviatsionnogo uchilishcha)

TITLE: Following the assigned course [orthodromic method of flight]

SOURCE: Grazhdanskaya aviatsiya, no. 6, 1966, 24-25

TOPIC TAGS: orthodromic flight, loxodromic flight, civil aviation, gyroscope, magnetic guidance, Doppler shift indicator, radio guidance/DGMK-7 gyroscope

ABSTRACT: Advantages of the orthodromic flight method as compared to the loxodromic flight method are discussed from the viewpoint of aircraft maintenance cost reduction. The author describes the experience of crews of TU-114 aircraft of the Moscow Administration of Transport Aviation involving the use of existing navigation aids for orthodromic flight on the Moscow-Khabarovsk route. The combined use of a directional gyroscope, a magnetic course indicator, radio navigation and the Doppler shift indicator is explained. This method can be used on aircraft with a separate system for indicating the magnetic course on a DGMK-7 gyromagnetic compass and the orthodromic direction on a GPK-52 directional gyroscope. The use of a gyromagnetic course indicator and radio bearing is also mentioned. Orig. art. has: 3 figures. [GC]

SUB CODE: 01, 17SUBM DATE: none

Card 1/1 LC

CHERNYSHEV, G.A., inzhener.

~~SECRET~~
Using corn cob husks as stuffing material. Der. prom. 6 no.2:
13-14 F '57. (MLRA 10:4)

1. MKB Ukrpromsovet.
(Corn (Maize)) (Furniture industry)

CHERNYSHEV, Georgiy Alaksayevich; SHEL'YUTTO, Ye.P., red.; ZAYTSEVA,
L.A., tekhn. red.

[Manufacture of wicker articles] Proizvodstvo pletenykh izdelii.
Moskva, Gos.izd-vo mestnoi promyshl. i khudozh. promyslov
RSFSR, 1961. 107 p. (MIRA 15:2)
(Basket making) (Furniture)

CHERNYSHEV, G.A.

137-58-5-11144

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 320 (USSR)

AUTHOR: Chernyshev, G.A.

TITLE: The Concentration Meter (Kontsentratomer)

PERIODICAL: Byul. Tsentr. in-t inform. M-va tsvetn. metallurgii SSSR.
1957, Nr 5, p 3 (obl.)

ABSTRACT: Description of a concentration meter employed for determination of the concentration of free H_2SO_4 in pickling baths. The accuracy of determination amounts to ± 5 g/liter within the limits of a 20-150 g/liter scale. The determination of the concentration of H_2SO_4 depends upon the principle of measurement of electrical conductivity of a solution by means of an unbalanced bridge operating on 127-v A-C. The device consists of a gage with a handle and an indicator. The gage unit consists of an enclosure which contains a standard gage and an operating gage. The indicator consists of an electromagnetic ammeter graduated in g/liter. The circuitry of the device is shown. Yu. B.
1. Sulfuric acid--Determination 2. Solutions--Electrical properties
3. Pickling compounds--Properties 4. Electric bridges--Applications

Card 1/1

CHERNYSHOV, G.B.; BRITAYEV, M.D.; TARKHOV, A.G.; SHCHEBRAKOV, A.V.; KREYTER,
V.M., glavnyy red.; SHATALOV, Ye.T. zamestitel' glavnogo red.;
YEROPHYEV, B.N., red.; ZENKOV, D.A., red.; KRASNIKOV, V.I., red.;
NIFONTOV, P.V., red.; SMIRNOV, V.I., red.; KHRUSHCHOV, N.A., red.;
YAKZHIN, A.A., red.; MUKHIN, S.S., red.; AVERKIYEVA, T.A., tekhn.
red.

[Prospecting for ferrous metal deposits] Razvedka mestorozhdenii
chernykh metallov. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po
geol. i okhrane neдр, 1957. 102 p. (Metodicheskie ukazaniia po
proizvodstvu geologo-razvedochnykh rabot, no.11). (MIRA 11:1)
(Iron ores) (Prospecting)

AUTHOR: Chernyshev, G.B., Engineer 127-58-7-5/20

TITLE: The Raw Material Base of Ferrous Metallurgy in the Trans-Baykal Region (Syr'yevaya baza chërnoy metallurgii v Zabaykal'ye)

PERIODICAL: Gornyy zhurnal, 1958, Nr 7, pp 23-27 (USSR)

ABSTRACT: The iron ore reserves of the Trans-Baykal region are estimated at 2 billion tons. Only a few of the deposits have been sufficiently explored and the Mezhdudedomstvennaya postoyannaya komissiya po zhelezu (The Interdepartmental Permanent Iron Commission) does not propose to develop them in the next 15-20 years. The author enumerates various deposits of this region and describes their general characteristics. The most important, the Berezov deposits, consist of siderite and limonite ores. They have a very low percentage of harmful impurities, and by content of iron, they are equal to the ores of the Baykal region. The deposit is situated in the southeast part of the Chita oblast', 10 km from the Soviet-Chinese border. The author describes other smaller deposits in the region. There are 2 figures and 2 tables.

ASSOCIATION: Glavnoye upravleniye geologii i okhrany nedr pri Sovete Ministrov RSFSR (Central Administration of Geology and Conservation of Mineral Resources at the Council of Ministers of the RSFSR)

Card 1/1 1. Industry-USSR 2. Iron ore-Production

18(5)

SOV/132-59-8-1/18

AUTHOR: Chernyshev, G.B.

TITLE: The Krasnokamenskaya Group of Mineral Deposits and Its Importance for the Third Metallurgical Base of the USSR

PERIODICAL: Razvedka i okhrana nedr, 1959, Nr 8, pp 1-8 (USSR)

ABSTRACT: The Krasnokamenskaya group and other iron ore deposits are situated in the inhabited regions between the south-western spurs of Eastern Sayan in the Krasnoyarskiy Kray (chart 1). The completion of the Abakan - Tayshet railway will create favorable conditions for the exploitation of the deposits situated along this railway. Exploring and prospecting operations in the Krasnokamenskaya group and other deposits have sharply increased, and at the beginning of 1959, general reserves in magnetite ores reached 156 million tons. The Krasnokamenskaya group alone accounted for 97 million tons. The further discovery of new magnetic anomalies (Tayat,

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SOV/132-59-8-1/18

The Krasnokamenskaya Group of Mineral Deposits and Its Importance
for the Third Metallurgical Base of the USSR

Tabrat, Bragino, etc) fixes the probable ore reserves of the region at more than 400 million tons, with large reserves of blast-furnace and Martin ores in that amount. According to the geological survey of the Krasnokamenskaya group of deposits, conducted by the Krasnoyarskoye geologicheskoye upravleniye (Krasnoyarsk Geological Directorate), iron ores of this group are of special commercial value, because of: their situation near the future railway, their high iron content and relatively-shallow occurrence. The Rudnyy Kaskad (tables 1 and 2), Odinochnoye and Margozy deposits are situated 9 to 14 km from the future Kashurnikovo railway station, 200 km from Abakan and 570 km from the Kuznetskiy metallurgicheskiy kombinat (Kuznetsk Metallurgical Combine). All deposits of the Krasnokamenskaya group are concentrated in the metamorphized strata of Paleozoic sedimentary and effusive rocks faulted by a large

Card 2/5

SOV/132-59-8-1/18

The Krasnokamenskaya Group of Mineral Deposits and Its Importance
for the Third Metallurgical Base of the USSR

Variscian intrusion in the Kanzybino Massif. The author gives a detailed description of all mentioned ore deposits. Their average iron content is 50%. The hydrogeological and technical conditions of the exploitation of these deposits have been little studied. The exploitation will be conducted by underground mining, and the hardness of its enclosing rocks, large dimensions of the deposits, and the gradual increase in ore beds permit the use of highly productive methods of mining with deep bore holes. The author further stresses the necessity of steadily increasing the production of extracted ore. During the Seven Year Plan, two new large metallurgical plants will be constructed: the West Siberian Plant near Stalinsk in the Kemerovskaya Oblast' and the Tayshet Plant. With the already operating Kuznetsk Combine (where a new blast furnace will be working at the end of 1959), these

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SOV/132-59-8-1/18

The Krasnokamenskaya Group of Mineral Deposits and Its Importance
for the Third Metallurgical Base of the USSR

three plants will form the foundation of the Third Metallurgical Base. Their foreseen production of pig iron is fixed at 7.5 million tons. Altogether five new blast furnaces will be put into action in the 1959-1965 period in Siberia. During this time the extraction of iron ore must be increased 4.5 times, and by 1965 must be 34.4 million tons. The Irkutsk and Altay sovnarkhozes must meet the production needs of the West Siberian Plant by guaranteeing the following quantities of extracted iron ore yearly: the Korshunovo Mining Concentrating Combine - 12 million tons, the Beloretskiy Mine - 3 million tons, and the Inskiy Mine - 2.4 million tons. It is expected that in the period 1959-1961, all ore reserves of the East Sayan region (table 3) will increase by more than 300 million tons, and that the general reserves of categories B and C₁ coal by 1 January 1962 will be 370 and

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SOV/132-59-8-1/18

The Krasnokamenskaya Group of Mineral Deposits and Its Importance
for the Third Metallurgical Base of the USSR

140 million tons, including about 150 and 70 million tons of Martin ores. As the Abakan-Artemovsk section of the railway will be put into use in middle 1960, the beginning of the exploitation of the Margo deposit is foreseen for 1962, that of the Rudnyy Kaskad - for 1963, and the Odinochnaya deposit - for 1964. All basic indicators of future industrial exploitation of the Krasnokamenskaya and Irbino groups of deposits and those of the Beloretskiy and Inskiy Mines in the Altay are indicated in table 3; compiled by the author from his comparative technical and economic calculations according to data from the Institut Kuzbassgiproruda (the Kuzbassgiproruda Institute). There are 3 tables, and 1 chart.

ASSOCIATION: Glavgeologiya RSFSR (the RSFSR Glavgeologiya)

Card 5/5

ZVEREV, L.V.; KONTOROVICH, G.I.; CHERNYSHEV, G.B., nauchnyy red.;
STOLYAROV, A.G., red.izd-va; BYKOVA, V.V., tekhn. red.

[Industry's requirements as to the quality of mineral raw
materials]Trebovaniia promyshlennosti k kachestvu mineral'-
nogo syr'ia; spravochnik dlia geologov. Izd.2., perer. Mo-
skva, Gosgeoltekhizdat. No.24. [Manganese]Manganets. 1960. 57 p.
(MIRA 16:3)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mine-
ral'nogo syr'ia.

(Manganese)

Chernyshev, G.S.

PHASE I BOOK EXPLOITATION

SOV/4252

Akademiya nauk SSSR. Sovet po izucheniyu proizvoditel'nykh sil

Chernaya metallurgiya (Ferrous Metallurgy) Moscow, Izd-vo AN SSSR, 1960.
275 p. (Series: Razvitiye proizvoditel'nykh sil Vostochnoy Sibiri)
Errata slip inserted. 2,000 copies printed.

Ed.: G.I. Lyudogovskiy, Candidate of Technical Sciences; Ed. of Publishing House: G.M. Makovskiy; Tech. Ed.: Ye.V. Makuni; Editorial Board of this vol.: S.S. Dvorin, N.V. Ovchininskiy, Candidate of Technical Sciences, A.N. Pokhvisnev, Doctor of Technical Sciences, and A.A. Fedotov, Engineer; Editorial Board of Series: I.P. Bardin, (Deceased), Academician, Academy of Sciences USSR (Chief. Ed.); M.A. Lavrent'yev, Academician, Academy of Sciences USSR; S.I. Vol'fkovich, Academician, Academy of Sciences USSR; V.I. Dikushin, Academician, Academy of Sciences USSR; V.S. Nemchinov, Academician, Academy of Sciences USSR; V.I. Veyts, Corresponding Member, Academy of Sciences USSR; O.D. Levitskiy, Corresponding Member, Academy of Sciences USSR; N.N. Nekrasov, Corresponding Member, Academy of Sciences USSR; L.B. Pustovalov, Corresponding Member, Academy of Sciences USSR; T.S. Khachaturov, Corresponding Member,

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Ferrous Metallurgy

SOV/4252

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PURPOSE: This collection of papers is intended to furnish information on industrial resources in Eastern Siberia and to provide a basis for future developmental planning in the field of ferrous metallurgy.

COVERAGE: The collection is a summary of the proceedings of the Ferrous Metallurgy Section of the Joint Conference of Representatives of the Academy of Sciences USSR, the State Planning Commission, and the Council of Ministers RSFSR on the Development of the Industrial Resources of Eastern Siberia. The collection deals with four main areas of development in Eastern Siberia: 1) Mineral resources, 2) the fuel base, 3) prospects for the development of ferrous metallurgy, and 4) problems in the development of electrometallurgy. A list of the 112 members of

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the Section with their affiliations is given in the Appendix. References accompany several of the articles.

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AVAILABLE: Library of Congress

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VK/pw/mas
9-26-60

GORLANOV, S.S.; CHERNYSHEV, G.B., nauchn. red.; NEMANOVA, G.F.,
red.izd-va; SHMAKOVA, T.M., tekhn. red.

[Industry's requirements as to the quality of mineral raw materials; handbook for geologists] Trebovaniia promyshlennosti k kachestvu mineral'nogo syr'ia; spravochnik dlia geologov. Izd.2., perer. Moskva, Gosgeoltekhizdat. No.15. [Chromite] Khromit. 1963. 34 p. (MIR 16:7)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ia.

(Chromite)

CHERNYSHEV, G.D.

The new IAMZ engines. Avt.prom. 27 no.11:1-4 N '61. (MIRA 14:10)

1. Yaroslavskiy motornyy zavod.
(Yaroslavl--Motortrucks--Engines)

KHANIN, N.S., kand.tekhn.nauk; CHERNYSHEV, G.D., inzh.

Arrangement of turbocompressors for motor-vehicle and tractor-type
diesel engines. Vest.mash. 42 no.3:33-38 Mr '62.

(MIRA 15:3)

(Diesel engines--Superchargers)

L 24769-65 EWT(g)/EPA/EWT(l)/EWP(m)/EWT(m)/EPP(c)/EWP(p)/EWS(v)/EPR/T-2/T/

AUTHOR Zaychenko Ye N Lyar

THE mechanical efficiency

SOURCE: *Antony and Cleopatra*, 1900-1901.

TOPIC TAGS: internal combustion engine

ATTORNEY AT LAW

sleeve is placed in the bearing with a . . .

Card 1/2

L 24769-65

ACCESSION NR: AP5001135

sleeve and bearings coincides with the axis of the sleeve and the bearings equal the axis of the sleeve.

Equations.

ASSOCIATION: NAMI, Yaroslavskiy

SUBMITTED

W. 1971

Card 2/2

CHERNYSHEV, G.D., inzh., red.

[Catalog of parts for the IAMZ-236 and IAMZ-238 engines]
Katalog detalei dvigatelei IAMZ-236, IAMZ-238. Moskva,
Mashinostroyeniye, 1964. 141 p. (MIRA 18:4)

1. Yaroslavskiy Gosudarstvennyy motornyy zavod, Yaroslavl'.

CHERNYSHEV, G.F., inzh.

We are improving unexploited production potentials. Avtom., telem.
i svyaz'. 4 no.5:29 My '60. (MIRA 13:8)

1. Kavkazskaya distantziya signalizatsii i svyazi Severo-Kavkazskoy dorogi.

(Railroads--Signaling)

CHERNYSHEV, G.F., inzh.

Public planning office of the district. Avtom.telem. i svyaz' 4
no.11:36 N '60. (MIRA 13:11)

1.Kavkazskaya distantziya signalizatsii i svyazi Severo-Kavkazskoy
dorogi.

(Caucasus--Railroads--Signaling)

L 29688-66 EWP(k)/EWT(m)/I/EWP(v)/EWP(t)/ETI JD/HM

ACC NR: AP6008817

SOURCE CODE: UR/0135/66/000/003/0032/0034

AUTHORS: Akulov, A. I. (Doctor of technical sciences); Chernyshev, G. G. (Engineer);
Spitsyn, V. V. (Engineer)

ORG: MVTU im. N. E. Bauman (MVTU)

TITLE: Automatic butt welding of nonrotating low-carbon steel pipes in carbon dioxide

SOURCE: Svarochnoye proizvodstvo, no. 3, 1966, 32-34

TOPIC TAGS: Pipe, low carbon steel, butt welding, automatic welding, welding technology/ Sv-08G2S electrode wire, St3 steel

ABSTRACT: To improve the quality of butt welding of nonrotating low-carbon steel pipes, a method which uses lateral oscillations of the welding electrode was developed at MVTU (A. I. Akulov and V. V. Spitsyn. Svarka trub v uglerodistom gaze s poperechnymi kolebaniyami elektroda. Svarochnoye proizvodstvo, 1960, No. 9). Low-carbon steel pipes (195 x 6, 219 x 8, and 273 x 8 mm diameter) with V-shaped butts were welded with Sv-08G2S electrode wire. The root welds (with 2-mm clearance) were performed with a vibration amplitude of 6--8 mm and 40--90 cpm and the finishing welds with an amplitude of 12--14 mm (to cover the V-opening). Curves of welding current as a function of electrode speed (0--40 m/hr) are presented and sections at different positions in the butt weld are shown. To determine the strength of the

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UDC: 621.791.753.9:661.97:62-462

L29688-66

ACC NR: AP6008817

welds, 8--12 mm thick St3 steel plates were welded and tested for tensile and impact strength. The quality of the welds could be substantially improved by proper choice of lateral electrode vibrations. Orig. art. has: 3 figures and 1 table.

SUB CODE: 13/ SUBM DATE: none/ ORIG REF: 004

Card 2/2 CC

CHERNYSHEV, G.G.

Autonomous temperature recorders. Probl. Arkt. i Antarkt. no.16:
89-91 '64. (MIRA 17:6)

CHERNYSHEV, G.I.

Operation of coal cutters with long jibs in mines of pechore basin. Chernyshev, G.I., (Ugol (Coal), Jan. 1952, 27-31).

Tabulated data are presented on two years' use of Soviet KMP-1 chain type coal type coal cutters with jibs 2, 3, 4, and 5 metres long. The seam in which the 5-metre jib was used was of below average hardness. (L)

immediate source clipping

CHERNYSHEV, G.I.

Improve the packaging of molded sugar and raffinade. Sakh.prom 30
no.12:65 D '56. (MIRA 10:1)

1. Leningradskaya kontora Glavbakalei.
(Sugar industry)

CHERNYSHEV, G.I.; ZABRODIN, P.I.; PRUSLIN, Ya.A.; PAVLOV, V.N.

Two-channel scintillation gamma-ray spectrometer for study
in boreholes. Trudy VNII no.35:30-39 '61. (MIRA 15:1)
(Oil well logging, Radiation)

CHERNYSHEV, G.N. (Moskva)

Action of concentrated forces and moments on an elastic
thin shell of arbitrary outline. Prikl. mat. i mekh. 27
no.1:126-134 Ja-F '63. (MIRA 16:11)

BR

ACCESSION NR: AP4026964

8/0258/64/004/001/0155/0158

AUTHOR: Chernyashov, G. N. (Moscow)

TITLE: Effect of concentrated force and concentrated moment on an anisotropic plate

SOURCE: Inzhenernyy zhurnal, v. 4, no. 1, 1964, 155-158

TOPIC TAGS: concentrated force, concentrated moment, anisotropic plate, flexure, coefficient of anisotropy, Dirac delta function, operator equation, elliptic differential equation

ABSTRACT: Let L be an elliptic operator and D_{ik} the coefficients of isotropy. The equation of flexure has the form

$$L(w) = q(x, y), \quad (1)$$

where

$$L = D_{11} \frac{\partial^4}{\partial x^4} + 4D_{12} \frac{\partial^4}{\partial x^3 \partial y} + 2(D_{13} + 2D_{22}) \frac{\partial^4}{\partial x^2 \partial y^2} + 4D_{23} \frac{\partial^4}{\partial x \partial y^3} + D_{33} \frac{\partial^4}{\partial y^4}, \quad (2)$$

Cord 1/2

ACCESSION NR: AP4026964

in the problem of an anisotropic plate. The flexure corresponds to the effect of a concentrated force, perpendicular to the surface of the plate, and of a concentrated moment, applied at an arbitrary interior point (x_0, y_0) . Mathematically, the unit intensity of the concentrated force corresponds to the Dirac delta-function. The coefficients of anisotropy are assumed constant with respect to the coordinate system of the plate. The method used is due to Ye. Ye. Levi (O lineyny*kh ellipticheskikh uravneniyakh v chastny*kh proizvodny*kh. Uspekhi matem. nauk, vyp. VIII, 1941) to find a solution of the operator equation $L(w) = \delta(x-x_0, y-y_0)$ satisfying the given boundary conditions. All the solutions $L(w) = \delta$, at the point (x_0, y_0) , have definite, identical singularities. To solve the problem completely, it is necessary to find a fundamental solution w_1 and an analytic solution w_2 so that $w = w_1 + w_2$ satisfies the boundary conditions. Only the solution of w_1 is constructed by the author. Orig. art. has: 14 formulas.

ASSOCIATION: none

SUBMITTED: 28Mar63

DATE ACQ: 15Apr64

ENCL: 00

SUB CODE: MM, AP
Card 2/2

NO REF SOV: 005

OTHER: 001

L 52544-55 EWT(d)/EWT(m)/EWP(w)/EWA(d)/EWP(v)/EPR/EWP(k)/EWA(h) Pf-4 WW/EM

ACCESSION NR: AP5010186

UR/0373/65/000/001/0099/0108

AUTHOR: Chernyshev, G. N. (Moscow)

TITLE: Calculation for spherical shells under action of concentrated loads.

SOURCE: AN SSSR. Izvestiya. Mekhanika, no. 1, 1965, 99-106

TOPIC TAGS: shell theory, spherical shell, concentrated load, stress distribution, stress distribution, stress distribution

tropic and anisotropic media. astronomical coordinates are introduced

$$\alpha = \ln \operatorname{tg} (\psi/2, \theta), \quad \beta = \varphi, \quad A = B = r / \operatorname{ch} \alpha$$

(see Fig. 1 on the Enclosure). Two analytical solutions are obtained

$\psi(0, \varphi(0))$ and $\psi(0, \varphi(0))$ represent the stress distribution in the shell and a pure moment deformation function, respectively. Generalized solutions are obtained for the case of a spherical shell of arbitrary thickness.

L 52544-55

ACCESSION NR: AP5010186

are derived for the shell deformation u, v, w . Solutions are given for three special cases. Case 1 corresponds to

Case 2 corresponds to

Case 3 corresponds to

Case 4 corresponds to

Case 5 corresponds to

Case 6 corresponds to

Case 7 corresponds to

Case 8 corresponds to

Case 9 corresponds to

$$A_1 = 2\pi r_0 \cos \theta_0$$

11.2

Orig. art. has: 50 equations and 17

ASSOCIATION: none

SUBMITTED: 22Jul63

EM:1

REF: 0101 M

NO REF COV: 007

ORNL

Card 2/3

Card 3/3

GORINOV, Aleksandr Vasil'yevich, prof. Prinimali uchastiye: TURBIN, I.V., dotsent, kand.tekhn.nauk; KANTOR, I.I., dotsent, kand.tekhn.nauk; KONDRATCHENKO, A.P., dotsent, kand.tekhn.nauk; YEVREYSKOV, V.Ye., prof., retsenzent; LEBEDEV, A.I., dotsent, retsenzent; VOZNESENSKIY, G.D., dotsent, retsenzent; ISAKOV, L.M., dotsent, retsenzent; DZHGAMADZE, O.V., dotsent, retsenzent; CHERNYSHEV, G.P., inzh., retsenzent; MYSHKIN, G.N., inzh., retsenzent; ZAYTSEV, I.M., inzh., retsenzent; OZERETSKOVSKIY, V.P., inzh., retsenzent; ZARETSKIY, A.O., inzh., retsenzent; BUGROV, B.A., inzh., retsenzent; KOSTIN, I.I., prof., red.; BOBROVA, Ye.N., tekhn.red.

[Railroad surveying and designing] Izyskaniya i proektirovaniye zheleznykh dorog. Moskva, Vses.izdatel'sko-poligr.ob"edinenie M-va putei soobshcheniya. Vol.1. Izd.4., perer. 1961. 336 p. (MIRA 14:4)

1. Chlen-korrespondent Akademii nauk SSSR (for Gorinov). 2. Kafedra "Proyektirovaniye i postroyka zheleznykh dorog" Novosibirskogo instituta inzhenerov zheleznodorozhnogo transporta (for Yevreyskov, Lebedev, Voznesenskiy, Isakov, Dzhgamadze). 3. Gosudarstvennyy projektno-izyskatel'skiy institut "Gipromtransstroy" (for Chernyshev, Myshkin, Zaytsev, Ozeratskovskiy, Zaretskiy, Bugrov). (Railroad engineering)

PROKOPOVICH, P.K.; CHERNYSHEV, G.P.; SHITOVA, L.N., red.izd-va;
TARKHOVA, K.Ye., tekhn. red.

[Instructions SN 234-62 for engineering surveys for construction lines; approved at the request of the Soviet of the Ministries of the U.S.S.R. by order of the State Committee on Construction of the U.S.S.R. of December 13, 1962] Instruksia po inzhenernym izyskaniyam dlia lineinogo stroitel'stva (SN 234-62); utverzhdena po porucheniiu Soveta Ministrov SSSR prikazom Gosstroia SSSR ot 13 dekabria 1962 g. Moskva, Gosstroizdat, 1963. 34 p. (MIRA 16:7)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. 2. Gosudarstvennyy komitet Soveta Ministrov SSSR po delam stroitel'stva (for Prokopovich). 3. Institut Gipromtransstroy Ministerstva transportnogo stroitel'stva SSSR (for Chernyshev).

(Surveying)

YERSHOV, L.D., kand.tekhn.nauk; CHERNYSHEV, G.S., inzh.; LUKASHENKO, I.A., inzh.; UDOVIK, L.N., inzh.; LESHCHINA, A.S., inzh.; SAS, Ye.Ya., inzh.. Prinimali uchastiye: BORTNIK, S.P., inzh.; EPEL'BOYM, P.L., inzh.; INOSOVA, N.A., LUKASHENKO, I.A., inzh., red.

[Instructions for manufacturing three-step blocks for arched roofs made without forms] Instruktivnye materialy po proizvodstvu trekhstupenchatykh blokov dlia bezopalubochnykh svodchatykh pokrytii. Kiev, Biuro tekhn.informatsii NIISK ASIA USSR, 1958.
35 p. (MIRA 12:4)

1. Akademiya budivnytstva i arkhitektury URSR. Instytut budivel'nykh materialiv i vyrobiv.
(Building blocks) (Roofs)

CHERNYSHEV, G.V., inzhener.

Structural elements and aspects of construction work. Gor.khoz.Mosk. 21
no.3:15-19 Mr '47. (MLRA 6:11)

(Moscow--Building) (Building--Moscow)

CHERNYSHEV, G. V.

Bee Culture

Planting vegetation around the apiary. Pchelovodstvo 29 no. 3:41-42 Mr '52.

9. Monthly List of Russian Accessions, Library of Congress, July 195~~5~~⁶ Uncl.

1. CHERNYSHEV, G.V.
2. USSR (600)
4. Bee Culture - Equipment and Supplies.
7. Processing and using old wax forms. Pchelovodstvo 29. no. 11. 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

CHERNYSHEV, G.Ye.

Hawthorn therapy of hypertension in ambulant patients. Sov.
med.18 no.1:35-36 Ja '54. (MLRA 7:1)

1. Iz polikliniki Donetskoy zhelezny dorogi (Voroshilovgrad).
(Hypertension) (Hawthorn--Therapeutic use)

CHERNYSHEV, I., kapitan 2 ranga.

~~CHERNYSHEV, I., kapitan 2 ranga.~~

Guided rocket shells in the navy. Voen.znan. 31 no.6:12-13

Ja '56.

(MLRA 9:10)

(Rockets (Ordnance))

CHERNYSHEV, I., kand.tekhn.nauk

Automation of landing. Grazhd.av. 18 no.2:30-31 F '61.

(MIRA 14:3)

(Instrument landing systems)

(Automation)

CHERNYSHEV, I., kand.tekhn.nauk

Controlling the take off. Grazhd.av. 18 no.9:31 S '61. (MIRA 14:9)
(Airplanes--Take off)

CHERNYSHEV, I.A., inzh.

Angle of displacement in alluvial soil containing
quicksand. Ugol' Ukr. 6 no.8:25-26 Ag '62. (MIRA 15:11)
(Donets Basin--Alluvial lands)

SETINEK, Karel; CERNYSEV, J.A. [Chernyshev, I.A.]

Thermal decomposition of trichlorosilane. Chem prum 12 no.8:419-422
Ag '62.

1. Ustav teoretickych zakladu chemicke techniky, Ceskoslovenska
akademie ved, Praha (for Setinek). 2. Ustav organické chemie
Akademie ved SSSR, Moskva (for Cernysev).

CHERNYSHEV, I.A.

Tree tapping with step-by-step streaks. Gidroliz. i lesokhim.
prom.14 no.2:24 '61. (MIRA 14:3)

1. Sverdkhimleszag.
(Sverdlovsk Province--Tree tapping)

CHERNYSHEV, I.A.

Enameled parts of chemical hacks. Gidroliz. i lesokhim.prom.
14 no.3:23 '61. (MIRA 14:4)

1. Verkhoturaskiy khimleskhoz.
(Turpentine)

CHERNYSHEV, I.A.

New method of cutting streaks. Gidroliz. i lesokhim. prom. 14
no.5:21 '61. (MIRA 16:7)

(Turpentine)

CHERNYSHEV, I.A.

Semiautomatic apparatus for determining the setting time of
thermosetting resins with the method of filament extrusion.
Plast.massy no.4:67-68 '64. (MIRA 17:4)

AUTHOR INDEX		BIBLIOGRAPHICAL LITERATURE CLASSIFICATION	
CHERNYSHEV, I. A.			
Chernyshev, I. A. PROPERTIES OF CLAY-BEARING SANDS. <i>Literat. delo</i> (Foundry Practice), 1931, 7:14 (in Russian). The plastic properties of sand depend not only on the clay content but also, to some extent, on the structure of the sandy grains. The cleanliness of the surface of the casting is considerably influenced by the quality of the clay constituent, the nature, quantity, and particle size of special organic admixtures, and to a smaller extent by the size (up to a definite limit) of the sand grains. The clay content cannot be taken as a measure of the binding properties of molding sands; the adhesion of the clay must be also determined. The deciding factor in tempering is the increased mobility of the colloids composing the mixture. The degrees of plasticity and hardness of the walls of the mold must be mutually adjusted in a definite manner. Addition of alkali or basic salts exerts an important influence in improving the molding properties of sands. A table showing the various types of clay-bearing sands is given.			

CHERNYSHEV, I.

USSR/Metals

Oct 1947

Foundries

Foundry Practice

"The Work of Foundries in Winter Conditions," I.
Chernyshev, Engr, 3 pp

"Morskoy Flot" No 10

Discussion of preparing molding materials in the dry summer months for use during the winter and affording proper storage so that the sands do not absorb moisture and become frozen. Methods of economizing on fuel, metal, and molding materials are discussed, and the use of substitute fuels is treated along with other related topics concerning problems of winter operation.

LC

30151

CHERNYSHEV, I.

ZASLAVSKII, I., Eng.; KOLTUNOV, S.; CHERNYSHEV, I.

Galvanizing

Galvanized zinc plating of pipes. Mor. flot 13, No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

CHERNYSHEV, I. A.

"Investigation and Application of Cement Molds in the Production of
Essential Ship Castings." Sub 29 Jan 51, Moscow Order of the Labor
Red Banner Higher Technical School imeni Bauman

Dissertations presented for science and engineering degrees in Moscow
during 1951.

SO: Sum. No. 480, 9 May 55.

CHERNYSHEV, I. A.

① 2

7 Vibrating of alloys during solidification. I. A. Chernyshev. *Litening Proizvodstvo* 1953, No. 10, 13-18. Math. The effect of vibrations of different amplitude and frequency on solidification phenomena is examd. For all alloys the max. acceleration of forced vibrations should not exceed normal gravitational acceleration, while the effect of the frequency is crit. Tensile strength and ductility of Fe increase, for example, with increasing acceleration reaching, resp., 175-180% and 150-250% of the original and then dropping. Calcd. results for the effect of acceleration plotted against experimentally obtained results showed good agreement. J. D. Galt

CHERNYSHEV, I.A.

DUBININ, Nikolay Petrovich; SOKOLOV, N.A., inzhener, retsenzent; CHERNYSHEV, I.A., kandidat tekhnicheskikh nauk, redaktor; KRYLOV, V.I., inzhener, redaktor izdatel'stva; SOKOLOVA, T.F., tekhnicheskiiy redaktor

[Cast-iron founding in metal forms] Chugunnoe lit'e v metallicheskih formakh. Izd. 2-oe, perer. i dop. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956. 319 p. (MIRA 9:9)
(Founding)

CHERNYSHEV, I.A.

Physical factors in the shell-forming process. Lit. proizv.
no.2:34-37 F '63.

(MIRA 16:3)

(Shell molding (Founding))

CHERNYSHEV, I.A.

Ribbed shell molds. Lit. proizv. no.6:1-3 Je '64.

(MIRA 18:5)

CHERNYSHEV, I.G.

Mechanization of accounting work in a railroad division. Zhel.
dor. transp. 45 no.11:73 N '63. (MIRA 16:12)

1. Nachal'nik finansovogo otдела Debal'tsevskogo otdeleniya
Donetskoy dorogi.

TERENT'YEV, Aleksey Vasil'yevich; SHCHEGOLEVA, K.M., retsenzent;
CHERNYSHEV, I.G., retsenzent; KAMENSKAYA, Ye.A., red.

[Ways for automation in fish processing] Puti avtomatizatsii ob-
rabotki ryby. Moskva, Rishchev... 191 p. 1904.
(MIRA 17:9)

CHERNYSHEV, I.K.

MEN'SHIKOV, Nikolay Aleksandrovich; ~~CHERNYSHEV~~, I.K., retsenzent;
MAN'KOVICH, B.Ya., retsenzent; KONSTANTINOV, V.P., red.; KAN, P.M.,
red.izdatel'stva; TSVETKOVA, S.V., tekhn.red.

[Organization of ships' radio communication systems] Organizatsiia
sudovoi radiosvazi. Moskva, Izd-vo "Rechnoi transport," 1957. 88 p.
(MIRA 10:12)

(Radio--Installations on ships)

CHERNYSHEV, I. M.

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TITLE: SHF-power switching by semiconductor diodes

SOURCE: Radiotekhnika i elektronika, v. 11, no. 10, 1966, 1899-1901

TOPIC TAGS: SHF, semiconductor diode, SHF switch

ABSTRACT: The SHF-diode switch changes its resistance upon application of a suitable bias voltage (D. W. Foldman et al., Rev. Sc. Instr., 1961, 32, 74). Placed in a waveguide, the diode changes the value of the reflected SHF power. Switches (see figure) for 3.2-cm and 2.5-cm wavelengths with D-13 Ge diodes were constructed, tested, and used (since 1962) in Soviet radio-spectroscopes. Measured SHF loss in the switch was 2 db or less; switching factor, 40--60 db. SHF-pulse rise and fall times were 1.5 μ sec or less when the switch was opened (or closed) by a square bias pulse with a rise time of 50 nsec. Orig. art. has: 2 figures.

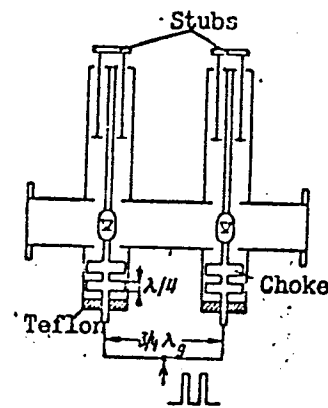


Fig. 1.

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